

January 2008

Z555i

Add some sparkle to your life







Preface

Purpose of this document

This White paper will be published in several revisions as the phone is developed. Therefore, some of the headings and tables in this document contain limited information. Additional information and facts will be forthcoming in later revisions.

The aim of this White paper is to give the reader an understanding of the main functions and features of this phone.

People who can benefit from this document include:

- Operators
- · Service providers
- Software developers
- Support engineers
- Application developers

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Sony Ericsson Developer World

On <u>www.sonyericsson.com/developer</u>, developers will find documentation and tools such as phone White papers, Developers guidelines for different technologies, SDKs and relevant APIs. The Web site also contains discussion forums monitored by the Sony Ericsson Developer Support team, an extensive Knowledge Base, Tips & Tricks, example code and news.

Sony Ericsson also offers technical support services to professional developers. For more information about these professional services, visit the Sony Ericsson Developer World Web site.

Document history

Change history		
2008-01-11	Version 2	Second revision.
2008-01-04	Version 1	First revision.

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Product overview

Z555i is a slim clamshell phone, combining a precious, jewel-inspired design with unique interaction features such as Gesture control and the hidden external display. The external display appears when activated, offering at-a-glance information about phone calls, messages and time.

Gesture control provides quick and easy control of the phone without having to touch it. The user simply silences a call or snoozes the alarm by sweeping a hand back and forth in front of the camera.

The excellent 1.3 Megapixel camera is easy to access. The user can smoothly take pictures or record video clips and share them. Videos can be stored and viewed in the phone. The picture album allows the user to save up to 60 photos in VGA (Vector Graphics Array) format on 12MB.

It is possible to upgrade memory capacity by adding a memory card. This allows you to save large volumes of interesting and fun content such as pictures, games, music and video clips.

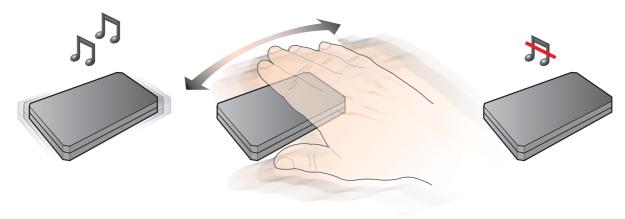
RSS feeds are included to keep the user updated on news and information at any time.

Note: To provide continuously updated information about the implemented technology and functionality of this product, this White paper will be released in updated revisions.

Key features

Gesture control

Gesture control lets you control the phone without opening or touching it. The camera lens acts as a sensor that registers movement allowing you to silence a call or snooze the alarm by sweeping your hand back and forth in front of the camera. Gesture control is easily switched on or off in the Setting menu.



FM Radio

The FM radio with RDS (Radio Data System) offers instant and easy access to FM radio channels. The RDS function brings information directly to the screen, which is sent out by the currently tuned in radio station. Plug in the portable handsfree that works as an antenna and start listening to the radio. The radio can also be used as an alarm signal.

Memory Stick Micro™ (M2™)

The card reader supports memory cards up to 2 GB in size. Different kinds of content (pictures, audio, video clips and so on) can be saved on the memory card and transferred to other memory card compatible products such as Sony digital cameras, video cameras, portable music players, TVs, photo printers and computers.

USB 2.0 mass storage

When connecting the phone to a computer with a USB cable, the memory card appears on the computer screen as a removable disk together with other computer disks. You can then quickly and easily drag and drop, for example, music and image files between folders in the phone and the computer.

1.3 Megapixel camera

With the 1.3 MP camera which includes 4x digital zoom and taking pictures becomes easy and fun. Taking a picture and sending it as part of a picture message is just a few clicks away.

External hidden display

The exterior display is hidden behind the multifaceted surface, and comes to life only when activated. The display shows information such as incoming calls, battery status, messages and time. The status of the gesture control feature is also shown in the external display.

Colour screen

The 1.9" 262 colours TFT 176x220 LCD (Liquid Crystal Display) colour screen provides excellent viewing and facilitates high-quality entertainment.

MMS (Multimedia Messaging Service)

Say it in words, say it with pictures, animate it and add sound. Have fun putting together multimedia birthday and holiday greetings. Sony Ericsson has incorporated the latest messaging standard, along with a colour display for an enhanced imaging experience.

Push email

Z555i supports push email, a method of pushing new email messages automatically to mobile devices. Push email increases mobile email usability, with email being delivered in the background (similar to SMS/MMS).

RSS Reader

A built-in RSS (Really Simple Syndication) reader is used in combination with the Internet browser. When browsing, frequently updated content, such as news headlines and content from selected Web sites and blogs, can be received as feeds using the Internet.

Mobile blogging

Use the Internet to send pictures to your personal blog.

Picture phonebook

Z555i lets you assign a picture or an icon saved in the phone to an entry in the Phonebook. When that person calls, a picture or an icon of your choice is shown in the display as well as the name.

Audible[®]Air

AudibleAir allows users to receive audio downloads from the Audible.com site delivered to their mobile phone wirelessly and automatically to ensure instant access to fresh content. Audible.com is the leader in spoken word audio information and entertainment with over 140,000 hours of audio programs from more than 470 content partners that include leading audiobook publishers, broadcasters, entertainers, magazine and newspaper publishers, and business information providers.

Bluetooth™ wireless technology

Several devices can be connected up to 10 metres (33 feet) away using Bluetooth wireless technology. For example, when it rings, the phone can be answered with a Bluetooth headset, and images can be sent to another phone at the same time. The phone and a computer can exchange data such as images, vCards and calendar data. Bluetooth version 2.0 is supported.

My friends

To ensure interoperability of mobile instant messaging and presence services, Sony Ericsson, Ericsson, Motorola and Nokia have created the Wireless VillageTM Solution, an open standard. The protocol is bearer-independent and can be implemented in different networks. The Wireless Village Instant Messaging and Presence Service (IMPS) includes three primary features: Presence information of other Wireless Village users, Instant messaging "point-to-point messaging" between Wireless Village users and Groups where users join a chatroom with other participants.

MusicDJ™

A sampler music tool with drum, guitar, keyboard, bass and brass loops in different music styles which can be combined to create polyphonic ringtones.

PlayNow™

A unique direct link to download content, such as games, themes and images, which is easy to use and gives you best-selling content for mobile download. All formats that are supported in the phone will be possible to download. Content may be previewed before purchase.

HTML Web browser support

Browse the Internet and look at the Web sites in a different way with Access NetFront™ 3.3, an HTML browser which supports a complete Web standard suite.

WAP 2.0 XHTML MP 1.1

A mobile Internet standard enabling you to access specially designed Web sites. WAP 2.0 supports colour and interactive lists.

Java™

Additional Java applications give users a chance to personalize the functions in their phones and developers the opportunity to create new applications.

3D Gaming

Gaming is a popular feature in mobile phones, and with Java, users can download new games and skill levels to further enhance their entertainment experience. Games are included in the phone at purchase, for example, SIMS 2.

Music Player

The Music Player application handles playback of audio and video content.

Personal Information Management (PIM)

Stay up to date with everyday events by synchronizing phone contacts, calendar appointments, tasks, notes and bookmarks in the phone with similar programs in a computer. A USB cable or the built-in Bluetooth can be used together with the Media Manager software which can be downloaded from www.sonyericsson.com/support.

Images



Technologies in detail

This chapter offers a detailed description of the technologies available in this product.

Functions and features

The following table is a complete description of the features in this product. It also compares this product to another/two other Sony Ericsson product/s. The following includes short descriptions of the technologies available in Z555i compared to Z130.

Feature	Z 555i	Z310
3D games	Yes	No
Activity menu	Yes	Yes
The user can easily handle missed calls, new text and picture messages, task reminders, shortcuts and get quick access to favourite Internet bookmarks		
Alarm clock	Yes	Yes
Set a time for simple or recurring weekly alarms		
Antenna	Yes	Yes
Built-in		
Backlight	Yes	Yes
White backlight to illuminate the keypad and phone screen		
Battery	3.6V, 920mAh, Li-Ion	3.6V, 780mAh, Lithium Polymer
Battery charging time	At least 90% charged within 2 hours. Fully charged within 2.5 hours	At least 90% charged within 2 hours. Fully charged within 2.5 hours
Bluetooth TM wireless technology	Yes	Yes
Wireless connectivity between devices. Range - up to 10 metres (33 feet). Support for specification of Bluetooth wireless technology, version 2.0		
Business card exchange	Yes	Yes
Exchange contact information		
Calculator	Yes	Yes
Calendar	Yes	Yes
Calendar with day, week and month views and reminders		
Call list	Yes	Yes
View calls made and received		

Feature	Z 555i	Z310
Camera	1.3 Megapixel	VGA
Camera album	Yes	Yes
Folder where all camera pictures are saved in the phone		
Camera file browser	Yes	Yes
Browse the picture folder without leaving the camera function		
Chinese input method	Yes	Yes
Text input methods based on Simplified or Traditional Chinese: Bopomofo, Pinyin or Stroke		
Clock	Yes	Yes
On-screen clock that keeps the time even when the phone is off		
Co-branding area	43,1 x 6,2 mm	25 x 7,2 mm
Operator key (Activity menu key and Internet key)		
Code memo	Yes	Yes
A safe place to save all PIN codes and other information. To access Code memo, only one PIN code is needed		
Colour	Diamond black, dusted rose, sand gold, water blue	Black, copper, pink
Contacts	Yes	Yes
Phonebook with fields for name, number, email address, Web address, picture, ringtone, title, address info, personal info and birthday		
Conference calls	Yes	Yes
Support for multiparty calling		
Content online	Yes	Yes
Downloadable pictures, games, themes, ringtones available online		
Copyright protection - DRM	Yes.	Yes.
DRM (Digital Rights Management) features the rights and copy protection of downloaded content (audio, pictures, entertainment features such as games, Java applications and so on)	OMA DRM 1.0	OMA DRM 1.0
Design	Clamshell	Clamshell

Feature	Z 555i	Z310
Device Management (DM)	Yes	Yes
DM utilizes GPRS as bearer (basic network connectivity needs to be in place) of the provisioning data and allows the operator to access the phone and check and set different settings such as network connectivity (GPRS), email, MMS, WAP and Java		
Digital zoom	Up to 4x	No
Display (external)	Yes	Yes
Type:	Monochrome OLED	Monochrome
Resolution:	128x36 pixels	96x64 pixels
EDGE - eGPRS	Yes	Yes
Enhanced General Packet Radio Service - a communications standard enabling packet data transfer of 59.2 Kbps per time slot		
Email	Yes	Yes
Built-in email client with inbox, outbox, compose/send and other functions		
EMS (Enhanced messaging)	Yes	Yes
Text messaging (SMS) with pictures and sounds		
Exterior description		
Size mm (length x width x thickness)	95 x 48.5 x 16.5	87 x 46.1 x 24.7
Fast port	Yes	Yes
A system connector which enables faster data transfer between the phone and a computer		
File manager	Yes	Yes
Folder structure storage to help save and organize pictures, sounds and other phone content		
Flight mode	Yes	No
All phone radio transmitters and receivers are inactivated. This starts the phone with only certain functions available, such as the calendar, music player or a game. The phone may then be used in some prohibited areas, such as aeroplanes or hospitals, where full mobile phone functionality is not allowed		
FM radio with RDS	Yes	No
FM radio with presets, auto and manual search. Portable handsfree is used as an antenna. The radio can also be used as an alarm signal		

Feature	Z 555i	Z310
Games download	Yes	Yes
Games can be dowloaded and installed		
Games preloaded	Yes	Yes
Gesture control	Yes	No
Silence an incoming call or set the alarm to snooze by sweeping your hand back and forth in front of the camera		
GPRS/EDGE	Yes	Yes
General Packet Radio Services – a communications standard enabling packet data transfer similar to Internet. It is recommended that you have GPRS to use MMS and content download services	Multislot class 8 supported (4+1)	Multislot class 8 supported (4+1)
Hidden display	Yes	Yes
The external display with a mirror effect lights up and shows information about new events		
HTML	Yes	Yes
HyperText Markup Language, the standard Internet communications protocol		
Icon Desktop 12	Yes	Yes
A graphic icon desktop with 12 interactive icons		
Instant messaging (Wireless Village/My friends)	Yes	Yes
Chat - several people can take part in a mobile messaging session		
Internet blogging	Yes	Yes
Share pictures over the Internet on your personal Web page		
Internet browser	Yes	Yes
Internet security	Yes	Yes
Encrypts confidential information such as credit card and bank account numbers. Necessary for mobile banking and shopping		
Java	Java 2, Micro	Java 2, Micro
Support for Java J2ME™ technology	Edition (J2ME™), Java 3D™	Edition (J2ME™)

Keypad with 12 alphanumeric	Keypad with 12
keys	alphanumeric keys
4+1 way navigation key	4+1 way navigation key
2 selection keys	2 selection keys
Back	Back
C key	C key
On/off	On/off
Volume	Volume
Activity menu key/Operator key	Activity menu key/Operator key
Internet key/ Operator key	
Yes	Yes
r	
Yes	No
Yes	No
1	
Up to 12 MB	Up to 14 MB
Yes	No
	navigation key 2 selection keys Back C key On/off Volume Activity menu key/Operator key Internet key/Operator key Yes Yes Yes Up to 12 MB

Feature	Z 555i	Z310
Menu shortcuts	Yes	Yes
It is possible to dedicate shortcuts to the most-used phone functions		
MMS (Multimedia Messaging Service)	Yes	Yes
Picture messaging with text and sound		
Modem	Yes	Yes
Circuit Switched/Packet Switched Internet dial-up support		
MusicDJ™	Yes	No
A sampler music tool with MIDI drum, guitar, keyboard, bass and brass loops in different music styles, which can be combined to create polyphonic ringtones		
My friends	Yes	Yes
See Instant messaging		
Networks	EDGE 850/1800/ 1900	GSM (R99) 900/ 1800/1900
	EDGE 900/1800/ 1900	GSM (R99) 850/ 1800/1900
OMA Data Synchronization (SyncML™)	Yes	Yes
A device communications standard that enables remote synchronization between devices	SyncML 1.1 SyncML 1.2	SyncML 1.1 SyncML 1.2
Operator key	Yes	Yes
The Activity menu key and Internet key can be customized		
OTA settings	Yes	Yes
Internet, email and picture message settings can be sent over the air to the phone		
Picture phonebook	Yes	Yes
Add a picture to a saved contact. The picture appears on the screen when the saved contact calls		
PlayNow™ (direct link)	Yes	Yes
Listen to music before you purchase and download it to your phone		
Polyphonic ringtones	20	24

Feature	Z555i	Z310
Predictive text input	Yes	Yes
When you write text, predictive text input software predicts the word you write and finishes it for you. The prediction is based on previous words used and a customizable dictionary		
Push email	Yes	Yes
A method of pushing new email messages automatically to mobile devices where email is delivered in the background		
RSS Feeds	Yes	Yes
Use your phone to view up-to-the-minute news and other content from selected Web sites and blogs		
SAIC support	Yes	No
SAIC (Single Antenna Interference Cancellation) makes mobile station receivers substantially more robust against interference and results in fewer dropped calls		
Screen (internal)		
Type: Size: Resolution: Technology: Colours displayed together: Backlight colour:	Full graphical 1.9 inches 176x220 pixels TFT+ QCIF, colour LCD 262,000 White	Full graphical 1.8 inches 128x160 pixels CSTN 65,000 White
Screen saver	Yes	Yes
When the phone has not been used for a while, a screen saver activates and the phone goes into 'sleep mode'		
Settings download (Ready to run)	Yes	Yes
Set up functions, such as the Internet browser and picture messaging, that require a connection to the Internet. This function runs in the setup wizard or can be chosen in the Settings menu. This function is not included in the setup wizard for customized phones		
SIM card lock	Yes	Yes
The possibility to protect the SIM card with a four-digit PIN code		
Sleep mode	Yes	Yes
A power-saving feature that minimizes battery power consumed when the phone is in standby		

Feature	Z 555i	Z310
SMS long (Text messaging)	Yes	Yes
Concatenated SMS text messaging		
Sony Ericsson Remote Update Service	Yes	Yes
Download the latest operator-approved version of the mobile phone software over the air		
Sony Ericsson Update Service	Yes	Yes
Connect the phone to an Internet-connected computer, download the latest operator-approved software from the Web, www.sonyericsson.com/support and update the phone		
Sound recorder	Yes	Yes
A recording device in the phone that can record voice messages or other sounds		
Speakerphone	Yes	Yes
Loudspeaker suitable for using the phone as an office handsfree		
Speed dialling	Yes	Yes
Allocate contacts in the phone book to specific keys on the keypad		
Standby time	Up to 300 hours	Up to 300 hours
Status view	Yes	Yes
The screen shows the network being used, the time and other status information		
Stopwatch	Yes	Yes
SVG Tiny 1.1	Yes	No
Scalable Vector Graphics for impressive animated wallpapers, menus and other graphics elements		
Synchronization PC	Yes	Yes
Synchronize phone content with a computer		
Talk time	Up to 7 hours	Up to 7 hours
Tasks	Yes	Yes
Keeps track of important things you have to do		
Themes	Yes	Yes
Phone menu texts and background graphics		

Feature	Z 555i	Z310
Timer	Yes	Yes
Set the phone to alert after a specific time		
USB connectivity support	Yes	No
Connect the phone to a computer with a USB cable. The memory in the phone appears on the computer screen as a mass storage device		
Vibrating alert	Yes	Yes
The phone vibrates when a call comes in		
Video player	Yes	No
Play and transfer video clips to another phone or a computer using an available transfer method		
Video streaming	No	No
Real time streaming of video, for example, live cam		
Viewfinder	Yes	Yes
Use the camera to preview a picture before it is captured		
Voicemail	Yes	Yes
Support for voicemail operator service including automatic answering and message recording		
WAP 2.0 XHTML	Yes	Yes
A mobile Internet standard to access specially designed Web sites. WAP 2.0 supports colour and interactive lists		
Weight	95 g	90 g

Facts and figures

This chapter offers readers a detailed listing of all the technical data relating to the product. Comprehensive descriptions of performance and technical characteristics are presented in table format for quick and easy access.

Technical specifications

General technical data

System	Tri-band. a variant: GSM 850, GSM 900, GSM 1800, GSM 1900. c and i variant: EGSM 900, GSM 1800, GSM 1900
Speech coding	HR, FR, EFR, AMR FR, AMR HR supported where available, for high speech quality
GSM SIM/USIM card	Small plug-in card, 1.8 V and 3 V
Memory	Up to 12 MB internal (depending on software configuration/file content) + extra slot for supported memory cards
Data transfer speeds	Up to 238.4 Kbps (downlink) Up to 118.8 Kbps (uplink)

Exterior description

Length	95 mm
Width	48.5 mm
Thickness	16.5 mm
Weight	95 grams
Internal Display	Type: Full graphical Size: 1.9 inches Resolution: 176x220 pixels Technology: TFT+QCIF, Colour LCD Colours displayed together: 262,000 Backlight colour: White
External Display	Type: Monochrome OLED Resolution: 128x36 pixels
Antenna	Built-in

Battery information

3.6 V, 920 mAh, Lithium Polymer	Charging time: 90% charged after 2hours with standard charger
Power save	Yes, default setting for the display light

Performance and technical characteristics

Property	GSM 850 (a variant)	EGSM 900 (i and c variant)	GSM 1800 (a, i and c variant)	GSM 1900 (a, i and c variant)
Frequency range (MHz)	TX: 824–849 RX: 869–894	TX: 880–915 RX: 925–960	TX: 1710–1785 RX: 1805–1880	TX:1850–1910 RX:1930–1990
Channel spacing	200 kHz	200 kHz	200 kHz	200 kHz
Number of channels	124 Carriers *x (TDMA)	174 Carriers *8 (TDMA)	374 Carriers *8 (TDMA)	299 Carriers *8 (TDMA)
Modulation	GMSK	GMSK	GMSK	GMSK
TX Phase Accuracy	< 5° RMS Phase error (burst)	< 5° RMS Phase error (burst)	< 5° RMS Phase error (burst)	< 5° RMS Phase error (burst)
Duplex spacing	45 MHz	45 MHz	95 MHz	80 MHz
Frequency stability	+/- 0.1 ppm	+/- 0.1ppm	+/- 0.1ppm	+/- 0.1ppm
Voltage operation (nominal)	3.6 V	3.6 V	3.6 V	3.6 V
Transmitter RF power output	32,5 dBm Class 4 (2 W peak)	33 dBm Class 4 (2 W peak)	29 dBm Class 1 (1 W peak)	30 dBm Class 1 (1 W peak)
Transmitter Output impedance	50 ohm	50 ohm	50 ohm	50 ohm
Transmitter Spurious emission (according to specification)	< -36 dBm up to 1 GHz < -30 dBm over 1 GHz	< -36 dBm up to 1 GHz < -30 dBm over 1 GHz	< - 30 dBm	< - 30 dBm
Receiver RF sensitivity	Better than – 102 dBm	Better than – 102 dBm	– 102 dBm	– 102 dBm
Receiver RX Bit error rate	< 2.4%	< 2.4%	< 2.4%	< 2.4%

USSD technical data TBA

Feature	Support
USSD support	GSM Phase 1/2 (Cross-phase compatibility)
Mode support	UI-mode supported SAT initiated USSD supported
UI-mode details	 It is possible to scroll up and down in USSD messages It is possible to highlight embedded numbers and take actions accordingly

GPRS technical data

Property	Support
Compatible GPRS and SMG specifications	Release 99 according to ETSI specification
Data rates GPRS (per time slot)	Coding scheme CS-1: 9 Kbps CS-2: 13,4 Kbps CS-3: 15,6 Kbps CS-4: 21,4 Kbps
Data rates EDGE (per time slot)	Modulation & coding scheme (MCS) MCS-1 (GMSK): 8,0 Kbps MCS-2 (GMSK): 11,4 Kbps MCS-3 (GMSK): 14,8 Kbps MCS-4 (GMSK): 17,6 Kbps MCS-5 (8-PSK): 22,4 Kbps MCS-6 (8-PSK): 29,6 Kbps MCS-7 (8-PSK): 44,8 Kbps MCS-8 (8-PSK): 54,4 Kbps MCS-9 (8-PSK): 59,2 Kbps
Medium Access Modes	Dynamic allocation
Support of Packet Control Channels (PBCCH/PCCCH)	Yes
Network operation mode	NOM I, II, III
Support of GPRS/CS combined procedures	Yes
Network control mode	NC0 and 2
Support of access in 2 phases	Yes
Support of PRACH on 11 bits	Yes
Support of GPRS re-selection C31/C32	Yes
Support of static and dynamic addressing	Yes
Support of power control Uplink and Downlink	Uplink = yes, Downlink is a network feature
Support of ciphering algorithms	GEA1, GEA2, GEA3
Support of compression algorithms	Yes, V42bis and IP header compression
Mode of operation	Class B and Class C modes of operation supported.
IP connectivity	PDP type IP is supported. IP termination in mobile or TE (laptop, PDA) supported

Property	Support
PDP context	10 PDP context descriptions stored in mobile. PDP context description is edited via application in mobile, AT-command or via OTA Simultaneous PDP contexts are supported, maximum 4
SIM	GPRS aware, as well as non-GPRS aware; SIM cards are supported
AT commands	Some of the supported commands: AT+CGDCONT - DEFINE PDP CONTEXT AT+CGEQREQ - Quality of Service Profile (REQUESTED) AT+CGEQMIN - Quality of Service Profile (Minimum Acceptable) AT+CGATT - PACKET DOMAIN SERVICE ATTACH OR DETACH AT+CGACT - PDP CONTEXT ACTIVATE OR DEACTIVATE AT+CGDATA - ENTER DATA STATE
	For more information, see www.sonyericsson.com/developer

SIM AT services supported

Service		Mode	Support
CALL CONTROL BY SIM			Yes
MO SMS CONTROL			No
DATA DOWNLOAD TO SIM		Cell Broadcast SMS	Yes Yes
DISPLAY TEXT		Text of up to 240 characters (120 UCS2 coded)	Yes
	bit 1:	0 = normal priority	Yes
		1 = high priority	Yes
	bit 8:	0 = clear message after a delay	Yes
		1 = wait for user to clear message	Yes
GET INKEY		General: The GET_INKEY requires that the user confirms his/her choice	Yes
	bit 1:	0 = digits (0-9, *, # and +) only	Yes
		1 = alphabet set	Yes
	bit 2:	0 = SMS default alphabet	Yes
		1 = UCS2 alphabet	Yes
	bit 3:	0 = character sets defined by bit 1 and bit 2 are	Yes
		enabled	Yes
		1 = character sets defined by bit 1 and bit 2 are disabled and the Yes/No response is requested	

Service		Mode	Support
GET INPUT		General: No. of hidden input characters	252
	bit 1:	0 = digits (0-9, *, # and +) only	Yes
		1 = alphabet set	Yes
	bit 2:	0 = SMS default alphabet	Yes
		1 = UCS2 alphabet	Yes
	bit 3:	0 = ME may echo user input on the display	Yes
		1 = user input not to be revealed in any way (see note)	Yes
	bit 4:	0 = user input to be in unpacked format	Yes
		1 = user input to be in SMS packed format	Yes
	bit 8:	0 = no help information available	Yes
		1 = help information available	Yes
LAUNCH BROWSER			Yes
MORE TIME			Yes
PLAY TONE			Yes
POLLING OFF			Yes
POLL INTERVAL			Yes
PROVIDE LOCAL INFORMATION		'00' = Location Information (MCC, MNC, LAC and Cell Identity)	Yes
		'01' = IMEI of the ME	Yes
		'02' = Network Measurement results	Yes
		'03' = Date, time and time zone (DTTinPLI)	Yes
		'04' - Language setting	Yes
		'05' - Timing setting	Yes
REFRESH		General: The reset option requests the user to wait while the phone restarts	Yes
		'00' =SIM Initialization and Full File Change Notification	Yes
		'01' = File Change Notification	Yes
		'02' = SIM Initialization and File Change Notification	Yes
		'03' = SIM Initialization	Yes
		'04' = SIM Reset	Yes

Service		Mode	Support
SELECT ITEM			Yes
SEND DTMF			Yes
SEND SHORT MESSAGE	bit 1:	0 = packing not required 1 = SMS packing by the ME required	Yes Yes
SEND SS			Yes
SEND USSD			Yes
SET UP CALL		General: Capability configuration Set-up speech call CallParty Subaddress DTMF support	Yes No Yes
		'00' = set up call, but only if not currently busy on another call	Yes
		'01' = set up call, but only if not currently busy on another call, with re-dial	Yes
		'02' = set up call, putting all other calls (if any) on hold	Yes
		'03' = set up call, putting all other calls (if any) on hold, with re-dial	Yes
		'04' = set up call, disconnecting all other calls (if any)	Yes
		'05' = set up call, disconnecting all other calls (if any), with re-dial	Yes
SET UP EVENT LIST		'00' = MT call	Yes
		'01' = Call connected	Yes
		'02' = Call disconnected	Yes
		'03' = Location status	Yes
		'04' = User activity	Yes
		'05' = Idle screen available	Yes
		'06' = Card reader status	Not Applicable
		'07' = Language selection	Yes
		'08' = Browser termination	Yes
		'09' = Data available	Yes
		'OA' = Channel status	Yes
SET UP IDLE MODE TEXT			Yes, 1 row of text is supported

Service	Mode	Support
SET UP MENU		Yes
TIMER MANAGEMENT		Yes
OPEN CHANNEL		Yes
CLOSE CHANNEL		Yes
RECEIVE DATA		Yes
SEND DATA		Yes
GET CHANNEL STATUS		Yes

User Interaction with SIM AT

Display text

Text of up to 240 characters (120 UCS coded) is supported.

Text clearing times are 5-20 seconds and a 60-second time-out limit for the user to clear the text. 'Key' responses:

- 'Long Back' Proactive session terminated by user
- 'Back' Backward move in proactive session.
 Any other key clears the screen if the command is performed successfully.

Get inkey

Prompt for a one-character input. Pressing 'Ok' without entering a character gives warning message "Minimum 1 character". 'Key' responses:

- · 'C' clears current character.
- 'Long Back' terminates the proactive session.
- 'Back' Backward move in proactive session.
- 'OK' Command performed successfully.

Get input

Prompt for character input. The phone will refuse to accept further input when maximum response length is exceeded. UI Maximum Response lengths:

- Digits Only 160 characters.
- SMS default alphabet characters 160 characters.

Hidden Characters (digits only) – 20 characters.

'Key' responses:

- 'C' clears current character.
- 'Long Back' terminates the proactive session.
- 'Back' Backward move in proactive session.
- 'OK' Command performed successfully.

Select item

Scroll to highlight item for selection. 'Key' responses:

- Navigational key press down Scroll down list.
- Navigational key press up Scroll up list.
- · Long 'Back' terminates proactive session.
- 'Back' Backward move in proactive session.
- 'OK'- Command performed successfully.

Send short message

Default message "Sending message, please wait" can be replaced for the Alpha Identifier text, or suppressed completely if a null text is provided. Default responses are "MESSAGE FAILED" or "MESSAGE SENT". 'Key' responses:

Long 'Back' or 'Back' ends the proactive session.

Set up call

If the ME is on a call when the command 'Set up Call', 'putting all other calls on hold' is sent, the user will see the text 'Setting up a call current call will be held'. If 'OK' is pressed the current call will be put on hold and the new call set up. If the ME is on a call when the command 'Set Up Call,

disconnecting all other calls' is sent, the user will see the text 'Setting up a call current call will be disconnected'. If the 'OK' key is pressed the current call will be disconnected and the new call set up.

Set up menu

Incorporates a SIM Application Toolkit Menu Item into the ME's main menu structure.

If an Alpha Identifier is supplied in the Set Up Menu command, this is used as the SIM AT entry in the ME's main menu. If no alpha identifier is supplied and several items are found in the menu, a default title is used. If the SIM AT Menu Item is selected by pressing 'Select', all the items sent in the Set Up Menu command will be available for selection, in the same way as the Select Item command.

Entertainment

Audio and Video

File types	Format	Extensions
Audio	MP4 (AAC, AAC+)	.m4a, .mp3
	MP3 (192 kbit/s)	.mp3
	MIDI	.mid
	Audible	.aa
Audio coding	AMR	
Video encoding	H.263 Profile 0, Level 10	
Video decoding	MPEG-4 Simple Visual Profile Level 0	

JavaTM

Feature	Functionalities
Java 2, Micro Edition (J2ME™)	 CLDC 1.1 (JSR 139) MIDP 2.0 (JSR 118) Wireless Messaging API (JSR 120/205) Java 3D Technology for the Wireless Industry (JSR 184) and Mascot Capsule Ver. 3 PDA Optional Packages for J2ME™ Platform (JSR 75) Web Services (JSR 172) Mobile Media API (JSR 135 - Audio playback only).

Radio with RDS

System	VHF/FM	
Output	Portable handsfree Internal loudspeaker External loudspeakers	
Save channels	Yes, 20 presets	
Antenna	Stereo portable handsfree	

Imaging/Messaging

1.3 Megapixel camera

Facts and figures		
Picture sizes (resolution)	1280x1024 pixels 640x480 pixels 160x120 pixels	
Colour depth	16 bit (8 bit per RGB channel) 262k colours	
Camera memory	Using phone memory or memory card; no memory dedicated to the camera only	
Digital zoom	Up to 4x zoom	
Flash light	No	
Auto focus	No	
Night mode	Yes	
Self-timer	Yes	
Effects	Negative/Solarize/Sepia/Black&White/Off	
Picture quality	Choose between Normal and Fine	
Shoot Mode	Normal/Panorama/Frames/Burst	

Pictures and animations

Formats	JPEG, GIF (including animated), PNG and SVG.
Sharing via	MMS, EMS, WAP, Bluetooth connection, email or cable

Image decoders

Decoder	Details	Size	Colour depth	File format
GIF	87a/89a			
JPEG	ISO/IEC JPEG Baseline DCT Progressive DCT Non-differential Huffman coding Symbol 'SOF2'	VGA		JFIF v1.02 EXIF
PNG				
SVG	SVG Tiny 1.1 support for anti aliasing, compression, opacity and gradients			

Image encoders

Decoder	Details	Size	Colour depth	File format
GIF	89a			
JPEG	ISO/IEC JPEG Baseline DCT Non-differential Huffman coding Symbol 'SOF0'	VGA		JFIF v1.02

Short Messaging Service

Feature	Support
SMS Service Centre Number	It is possible to preload the SMS Service Centre Number
Pictures	It is possible to insert a picture or an icon into the text message. EMS compliant mobile phones will be able to see the picture correctly
Reply to messages	It is possible to reply to received messages by SMS, MMS, voice message and email
Input methods:	Predictive writing and multitap
Copy and paste words	Yes
Teaching of predictive words that are not in the predictive dictionary	Yes
Possibilities when creating a message:	
Save a sent message in a "Sent items" folder	Yes

Feature	Support
Insert a line in the message	Yes
Assign a validity period to the message	Yes
Use predefined messages	Yes
Possibilities when receiving a message:	
Reply to the sender	Yes
Forward the message	Yes
Save the message on SIM	Yes
Get delivery time and date	Yes
Possibilities of the previously sent message:	
Delivery report of the message	Yes (if requested when sending)
Forward the message	Yes
Save the message on SIM	Yes
Know the remaining capacity storage	Yes, > 95% full warning, capacity on SIM when saving to the SIM card
Possibilities of the previously received message:	
Reply to the sender	Yes
Save the message in the inbox	Yes
Forward the message	Yes
Know the remaining capacity storage	Yes, $>$ 95% full warning, capacity on SIM when saving to SIM
Supported ways for replying to a received text message:	
Via SMS, MMS, voice message, email	Yes
Via phone call (set up a call to the number contained in the message body)	Yes
Via WAP call (go to the WAP address contained in the message body)	Yes
Via USSD session	No
Possibility to enable the user to send a text message to a list of recipients	Yes
Possibility to write an email address as a recipient address	Yes, if email gateway is present
SMS storage	On the SIM card and in the phone
Nokia Picture Messaging	Yes

Enhanced Messaging Service

Feature	Support	
Level of compliance supported by the handset regarding the specifications described in release 99	Enhanced Messaging Service (EMS) according to the standard 3GPP TS 23.040 v4.3.0, with the addition of the ODI feature from 3GPP TS 23.040 v5.0.0	
Number of messages that the handset is able to handle to generate a concatenated message	10	
Capacity storage	Up to 1000 and the space on the SIM card	
Outgoing messages	It is possible to See how many short messages an EMS message consists of before sending it. Choose whether to send the message or not after writing i.	
Incoming messages	 A signal is heard once all parts of the message have been received or when a time-out occurs. It is possible to re-use the content of an EMS message. Sounds, pictures, and animations can be inserted in a new message, if the object is not protected using ODI. 	
Delivery report for concatenated messages	Request a delivery report when sending the message. A receipt is received in the handset when all parts of a concatenated message have been delivered	
Insert objects	It is possible to add pictures, animations and sounds to an EMS message	
Sounds	Chimes high, chimes low, ding, tada, notify, drum, claps, fanfare, chords high, chords low	
I-melody	Yes, version 1.2	
Melodies	It is possible to receive (always) and send melodies using EMS (if not copyright protected). It is also possible to download melodies and commercial tunes from WAP/WAP portals	
Picture sizes	16x16, 32x32 pixels, variable size in black and white	
Pictures	It is possible to receive and send using EMS (if not copyright protected)	
Animations	There is support for the following animations: Angry, Crying, Flirty, Happy, Kiss, Sad, Tongue, Wow, Confused, Devil, Glasses, Indifferent, Laughter, Sceptical and Wink, as defined in 3GPP TS 23.040 v4.3.0. It is possible to send and receive animations	
TP-PID field value given by the mobile phone before sending an EMS message	0x00	

Multimedia Messaging Service

Feature	Support	
MMS parameters and MMS/GPRS parameters placement	MMS is bound to an MMS profile. An MMS profile is bound to an Internet profile. An Internet profile is bound to a Data Account	
Possibility to pre-configure the MMS parameters in factory	MMS/GPRS: Yes	
Possibility to configure the MMS parameters by OTA provisioning	MMS/GPRS: Yes	
Possibility for all the parameters from the parameters set to be OTA provisioned at the same time	MMS/GPRS: Yes	
Possibility for only one parameter, in the set of parameters, to be OTA provisioned	MMS/GPRS: No	
OTA provisioning solution	OTA Settings Specification v7.1 © Ericsson and Nokia and OMA provisioning	
Supplier indication of realized interoperability tests between its MMS User Agent and MMS Relay/Server from other suppliers	Yes	
Support of a standard or a proprietary procedure for OTA provisioning of MMS parameters	Proprietary and OMA provisioning	
Functionalities that the user is able to set during message composition:	 Message subject Message priority Email recipient address Message Cc, Bcc recipient(s) address(es) Delivery report request Read report request MSISDN recipient address Delivery time Validity period 	
From where can the user insert multimedia elements into multimedia messages:	 File Manager Directly from camera Contacts Calendar Task Note Browser (vBookmark) 	
Possibility for sent messages to be memorized into a folder in phone memory	Yes	

Feature	Support
Actions that the user can perform after message retrieval:	 Reply to the sender of the message SMS/MMS Reply to the sender and to Cc, Bcc people SMS/MMS Forward the message Delete the message Save message in a dedicated folder Call the sender of a message Save item Mark as unread Details
Multimedia codecs/formats supported for audio	AAC, AAC+, MP3, MIDI
Multimedia codecs/formats supported for image	JPEG, GIF87, GIF89A, PNG
Supported formats for message presentation:	 message body + attachments (email presentation) SMIL version as described in OMA MMS IOP document version 1.2
Maximum message size that can be handled by the mobile phone for message	Content Class and Creation mode are applied. Maximum size can also be customized

Email client technical data

Feature	Support
Bearer type GSM Data (IP)	Yes, ISDN and analog
Character sets	ISO: ISO-8859-1, ISO-8859-2, ISO-8859-5, ISO-8859-7, ISO-8859-9, ISO-8859-10 Windows: Windows-1251, Windows-1252, Windows-1254, Windows-1255, Windows-1258 US-ASCII Unicode: UTF-7, UTF-8, UTF-16 Japanese: Shift_JIS, ISO-2022-JP Cyrillic: KOI8-R Simplified Chinese: GB2312, GB18030 Traditional Chinese: Big5
OTA provisioning solution	Yes
Protocols	POP3 and IMAP4
Push email	IMAP Idle (extension of IMAP4Rev1), OMA Email Notification 1.0 and scheduled checking
Secure email	SSL/TLS, both port methods (POPS/IMAPS) and STARTTLS
Remote configuration	OMA 2 Client Provisioning and Nokia Smart Messaging
HTML mail	Yes (tags removed)
Inline images	Yes

Feature	Support
Message management	Window of 50 latest messages Headers only or size limits
ESMTP	Yes
Background sending	Yes

Connectivity

Bluetooth™ technical data

Dimension	Support
Bluetooth capability statement	This phone supports Bluetooth Specification, version 2.0 with enhanced data rate (EDR)
Bluetooth profiles	Dial-up Networking Profile File Transfer Profile Generic Access Profile Generic Object Exchange Profile Handsfree Profile Headset Profile Object Push Profile Serial Port Profile Synchronization Profile Personal Area Networking Profile - Network Access Point (PANNAP)
Connectable devices	All products supporting Bluetooth spec. 1.1, or higher, and at least one of the profiles above
Coverage area	Varies due to radio performance on remote device and the occurrence of obstacles. Up to 10 metres (33 feet)
Transmission power	Class 1, 4-20 dBm
Frequency band	2.4 GHz - the unlicensed ISM band
Power consumption	 GSM host processor excluded: Standby, Bluetooth On mode: <0.6mA. Voice to headset (HV3 master): 11 mA (7 mA with EDR functionality, 2EV3 master). Dependent on various parameters, such as if the phone is master or slave. Data mode average: 27mA at 172.8 Kbps symmetrical (DH1).
Data transmission rate	Up to 600 kbps asymmetric and up to 350 Kbps symmetric from an application level

OMA Data Synchronization (SyncML™) technical data

Feature	Support for SyncML
SyncML compliance	The handset is fully SyncML compliant, having passed SyncML Conformance testing. SyncML 1.2 is used by default and SyncML 1.1 is used depending on configuration and both are supported in Server-alerted synchronization
Basic data formats	Contacts: vCard 2.1, Calendar: vCalendar 1.0 (vEvent) Tasks: vCalendar 1.0 (vTodo) Notes: text/plain, Bookmarks:vBookmark 1.0

Feature	Support for SyncML
Possibility for operators to extend SyncML functionality	The device may be configured to include preset SyncML settings, and to control whether SyncML 1.1 or 1.2 will be used
Possibility to synchronize other handsets using SyncML	No
Transport method for SyncML messages	HTTP, OBEX (USB, Bluetooth connection)
Synchronization application placement	Inside the mobile phone.
Possibility for the user to configure login parameters (for example, username and password) to access the remote database	Yes
Configuration parameters that can be entered/modified by the user	Server URL, Username, User PWD, Paths to databases (Calendar, Contacts, Tasks, Notes and Bookmarks), UserID and PWD for Databases, Databases to be synchronized (on/off), Internet profile, Synchronization interval, Server ID and Server PWD, and permission to allow server-alerted synchronization. Can be provisioned with Ericsson Nokia OTA Settings Specification v7.1, OMA Client provisioning v1.1, and OMA Device Management 1.2
Mechanisms used by the mobile phone to capture changes made by the enduser (that is how does the SyncML client in the mobile phone know which changes were made to the address book)	It uses a change log where it marks the contact as updated
Ability to deal with multiple servers	Yes
Ability to perform conflict resolution actions	No

Web browser data

Feature	Support in the browser
Back/forward to previous/next page	Yes
Bearer type GSM Data	Yes, packet switched
Bookmarks	Yes, with folders and sorting supported
Bookmark Export/Import	Yes, can be sent and received using vBookmark format via Bluetooth connection, SMS, MMS and email
Cache	Yes, 300 KB

Feature	Support in the browser
Character sets *	UTF-8 (Default), UTF-16, USASCII, Latin1, UCS2.
	*) When creating WML applications, it is recommended to always save the page contents as UTF-8, and that this is clearly indicated in the pages before publishing. This ensures that the contents of the application can be viewed, regardless of character sets used in gateways and the phone. All characters are not supported in all phones. The software version depends on which market the phone is associated to. Also, please note that the phone may not support input on a WAP Service which uses certain characters (languages), even if those characters are supported for browsing in the phone
Clear cache	Yes
Home page	Yes, up to 10 different; one for each Internet profile
HTML version for WAP browser	XHTML, Mobile Profile 1.1 Full HTML is supported ECMA Script is supported DOM level 1 & 2 is supported WAP 2.0/WML 1.3
Hyperlinks in Text	Yes, highlighted as blue underlined text
Hyperlinks in Images	Yes, indicated by a frame
Image Animation	Yes
Image Formats	GIF (interlaced and non-interlaced) no transparent layers, JPEG, PNG
Network Settings	Up to 10 different settings available by selecting WAP profile (Internet, Banking, Gateway and so on)
OTA Support	Yes
PPP Authentication	PAP, CHAP supported
Reload page	Yes
Security	WTLS class 1-3 TLS version 1, Client authentication SSL version 3, Client authentication WIM on SIM ICC X.509 certificate support, WAP Profile WPKI OTA download of trusted certificates
Tables	Yes
User Agent Profiles	Yes, list of client characteristics - for example, screen size
Internet profiles	Dynamic - up to 10 WAP profiles, each with its own settings

Web browser and Operator technical data

Feature	Support for browser		
Web browser			
Version	2.0 baseline		
HTML	XHTML Mobile Profile		
Access NetFront 3.3	CSS 1 & CSS 2 (Partial)ECMAScript 3rd editionDOM level1, level2 and l	 CSS 1 & CSS 2 (Partial) ECMAScript 3rd edition (equal to Java script 1.5) DOM level1, level2 and Dynamic HTML (Partial) Graphic formats: GIF, Animated GIF, JPEG, progressive JPEG 	
Provisioning			
Provisioning types	The Ericsson-Nokia OTA solution Over the Air Settings	OMA Client provisioning (v1.1)	
	Specification, v7.1 © Ericsson and Nokia		
Total Parameter sets	10 (shared between the< or = 10 (total number of	WAP provisioning types) of WAP profiles)	
Parameter set list	name, homepage and homepage title (1st bookmark element),	name, homepage,	
	proxy/GW address, bookmarks (remaining bookmark elements),	proxy/GW address,	
	GPRS APN,	GPRS APN,	
	protocol authentication, GW authentication,	protocol authentication, GW authentication,	
	secure connection on/off	GPRS QoS	
Parameter sets include	GPRS		
Factory pre-configuration	GPRS		
ОТА	GPRS configuration possib	le	
Security mechanism			
Bearer	The Ericsson-Nokia solution	OMA Client Provisioning	
OTA via SMS	Operator verification through a code that can be included in the OTA configuration data. This code is shown to the user who can choose to install or not	Uses security mechanism (SEC) methods according to WAP-183-ProvCont-20010724-a (go to www.openmobilealliance.org)	

Feature	Support for browser	
Interface		
Bearer	The Ericsson-Nokia solution	OMA Client Provisioning
OTA via SMS	A question whether to install, with the code if available is asked. The user may have to choose whether to create a new WAP profile or to replace an existing WAP profile	For NETWPIN the user is asked to accept to install received settings. For USERPIN, USERNETWPIN and USERPINMAC the user is subsequently asked to enter a PIN code that is a shared secret between the service provider and the user
Re-provisioning Interface	The Ericsson-Nokia solution	OMA Client Provisioning
OTA via SMS	Same interface as above	If the settings previously installed were privileged or have higher priority, it might not be possible to install the settings again unless the terminal is reset, otherwise as above
Carrier reset/provisioning	Yes, but not if the set is pre	-configured in the factory and locked
SWIM	Not used for provisioning. The SWIM is only used for WAP security, both SSI/TLS connections and digital signatures	
SWIM certificate	Both client and trusted certificates can be used for WTLS connections and digital signatures	
Applicative provisioning		
Preferred bearer customization	Yes	
Email customization	Yes	
Other applications/features	Yes (MMS, SyncML, Wireles	ss Village, OMA Device Management)
Technologies		
OMA Client provisioning	Yes, WAP provisioning document v1.1	
Openwave OTA	No	
Other	Yes. The Ericsson-Nokia solution. OTA Settings Specification v7.1	
Provisioning bearer	SMS	
Parameter sets available	< or = 10 (total number of Internet profiles)	
Parameter sets for OTA modification	< or = 10 (total number of Ir	iternet profiles)
PUSH		

Feature	Support for browser
Service Indication (SI)	Yes
Service Loading (SL)	Yes
Cache Operation (CO) content type	No
Session Initiation Application (SIA)	Yes
Man Machine Interface	
SI/content retrieval postponing	Yes
SI menu structure accessability	Messaging, Inbox
SL reception warning	The user can make a choice if a dialogue is wanted or not before loading the SL. Messaging/Settings/Push/Allow push msg/Always ask
SIA reception warning	Yes
Cache size limitations	The oldest push in the inbox will be discarded
Number of push messages	The inbox holds 20 push messages independent of size. The maximum size for a push message is approximately 2KB.
Push deactivate	Yes (Messaging/Settings/Push/Allow push msg)
Dynamic push menu changes	No. There are no changes in the menus when activating/deactivating push
Security	
Mechanisms for push	None
Trust with PPG	Sending an SIA is the most reliable
Denial of service/spoofing	
User agent profile	
OA profile content size	
URL location	On the manufacturer Web site
WTAI	mailto: scheme smsto: scheme mmsto: scheme
WTA Make Call	Yes
WTA Send DTMF	Yes
WTA Add Phonebook	Yes
DOWNLOAD	
OMA download functionality	Yes
HTTP GET solution to download content	Yes

Feature	Support for browser
Other download content	Yes. No download limit when using HTTP protocol
Download application/product memory check	Yes
Downloaded object solution	Yes. The user is informed where the content is saved and asked if it should be used at once or later
UAP indication for downloading	Yes
Other features	Yes. Store, delete, forward, use, manage
Object formats	Formats supported in the phone
GRAPHICAL USER INTERFACE	
Man Machine Interface	
Selection keys	Yes
Separate/dedicated back or erase keys	Yes
Display backlight on when browsing	Yes
Predictive writing	Yes
"http://" string displayed automatically when entering URLs	Not displayed but the "http://" is added automatically to the URL
Elements	
Pop-up menus	Yes, in XHTML
Radio buttons	Yes, in XHTML
Check boxes	Yes, in XHTML
Buttons	Available as XHTML form controls

Abbreviations

3GPP

3rd Generation Partnership Project

AAC+

Advanced Audio Coding

AMR

Adaptive Multi-Rate. Audio format for speech sounds

API

Application Programming Interface

DM

Device Management

DRM

Digital Rights Management. Controlling copying and distribution of contents, with respect to intellectual property rights.

DTMF or Touch Tone

Dual Tone Multi-Frequency signal. Codes sent as tone signals. Used for telephone banking, accessing an answering machine and so on

e-GSM

Extended GSM. New frequencies specified by the European Radio Communications Committee (ERC) for GSM use when additional spectrum is needed (network-dependent). It allows operators to transmit and receive just outside GSM's core 900 frequency band. This extension provides increased network capability

EDGE

Enhanced Data GSM Environment

EDR

Enhanced Data Rate

EFR

Enhanced Full Rate, speech coding

EMS

Enhanced Messaging Service. Allows the user to add simple pixel pictures and animations, sounds and melodies to a text message. The EMS 3GPP standard also includes text formatting

ETSI

European Telecommunications Standards Institute

FΜ

Frequency Modulation of the (radio) carrier wave

FR

Full Rate, speech coding

GIF

Graphics Interchange Format

GPRS

General Packet Radio Services

GSM

Global System for Mobile Communications. GSM is the world's most widely used digital mobile phone system, now operating in over 100 countries around the world, particularly in Europe and Asia-Pacific

The GSM system family includes GSM 850, GSM 900, GSM 1800 and GSM 1900. There are different phases of roll-out for the GSM system and GSM phones are either phase 1 or phase 2 compliant

HR

Half Rate, speech coding

HTML

HyperText Markup Language

HTTP

HyperText Transfer Protocol

IMAP

Internet Access Message Protocol

IMPS

Instant Messaging and Presence Service

JPEG

Joint Photographer Expert Group

LCD

Liquid Crystal Display

LED

Light-Emitting Diode

MIDI

Musical Instrument Digital Interface

ME

Mobile Equipment

MMI

Man-Machine Interface. See UI

MMS

Multimedia Mesasging Service

MP

Megapixel

MP3

Short for "MPEG-1 layer 3", an effective audio coding scheme.

MT

Mobile Termination

ODI

Object Distribution Indicator

OLED

Organic Light-Emitting Diode

OMA

Open Mobile Alliance

OTA

Over-The-Air Configuration. To provide settings for the phone by way of sending an SMS message over the network to the phone. This reduces the need for the user to configure the phone manually

PIM

Personal Information Mangement

PDA

Personal Digital Assistant

PDP

Packet Data Protocol

PNG

Portable Network Graphic

QCIF

Quarter Common Intermediate Format

RDS

Radio Data System

RSS

Really Simple Syndication

SDK

Software Development Kit

SI

Service Indication

SL

Service Loading

SIM card

Subscriber Identity Module card – a card that must be inserted in any GSM-based mobile phone. It contains subscriber details, security information and memory for a personal directory of numbers. The card can be a small plug-in type or credit card-sized, but both types have the same functions. The phone uses the small plug-in card

SMS

Short Messaging Service. Allows messages of up to 160 characters to be sent and received via the network operator's message centre to a mobile phone

SP-MIDI

SP-MIDI stands for Scalable Polyphony MIDI.

SS

Supplementary Services

SSL

Secure Sockets Layer

SVG

Scalable Vector Graphics

SWIM

SIM-card containing a WIM (Wireless Identity Module)

TFT

Thin-Film Transistor

TLS

Transport Layer Security

UI

User interface

URL

Uniform Resource Locator.

The global address of documents and other resources on the World Wide Web

USB

Universal Serial Bus

USSD

Unstructured Supplementary Services Data

vCard

vCard automates the exchange of personal information typically found on a traditional business card, for use in applications such as Internet mail, voicemail, Web browsers, telephony applications, call centres, conferences, PIMs /PDAs, pagers, fax, office equipment and smart cards. vCard is specified by IETF

VGA

Video Graphics Array

WAP

Wireless Application Protocol. Handheld devices, low bandwidth, binary coded, a deck/card metaphor to specify a service. A card is typically a unit of interaction with the user, that is, either presentation of information or request for information from the user. A collection of WML cards is called a deck, which usually constitutes a service

WAP Application

A collection of WML cards, with the new context attribute set in the entry card

WAP service

A WML application residing on a Web site

WML

Wireless Markup Language. A markup language used for authoring services, fulfilling the same purpose as HyperText Markup Language (HTML) does on the World Wide Web (WWW). In contrast to HTML, WML is designed to fit small handheld devices

WMLScript

Wireless Markup Language Script can be used to enhance the functionality of a service, just as, for example, Java Script may be utilized in HTML. It makes it possible to add procedural logic and computational functions to WAP-based services

WWW

World Wide Web

XHTML

Extensible HyperText Markup Language

Related information

Documents

- Sony Ericsson User guide
- Sony Ericsson FAQ

- AT Command Reference Manual
- WAP 2.0 Specifications

Links

- www.sonyericsson.com/
- www.ericsson.com/mobilityworld/
- www.midi.org
- www.extendedsystems.com
- www.gsmworld.com/
- www.bluetooth.com
- www.imc.org
- www.3gpp.org

- www.etsi.fr
- www.wapforum.org
- www.imc.org/pdi/
- www.syncml.org
- www.w3.org/TR/xhtml-basic/
- www.java.sun.com
- www.memorystick.org/
- www.memorystick.com/

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